# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/29/2018 09:20 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/31/2018 01:04 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 126044 | 0 | 2.16 | 126090 | 2.16 |
| Blue | F | SSC | 125000 | 124126 | -1 | 3.76 | 124847 | 3.84 |
| Blue | E | FITC | 15492 | 15101 | -3 | 3.85 | 350 | 22.46 |
| Blue | D | PE | 28736 | 28036 | -3 | 3.04 | 618 | 16.35 |
| Blue | B | PerCP-Cy5-5 | 41413 | 41104 | -1 | 4.74 | 1127 | 23.32 |
| Blue | A | PE-Cy7 | 31321 | 31443 | 0 | 7.24 | 569 | 48.50 |
| Red | C | APC | 41673 | 40768 | -3 | 2.95 | 1577 | 13.31 |
| Red | A | APC-Cy7 | 29962 | 29527 | -2 | 2.87 | 742 | 13.90 |
| Violet | B | V450 | 8318 | 7864 | -6 | 4.76 | 435 | 15.31 |
| Violet | A | V500 | 34199 | 33463 | -3 | 4.42 | 803 | 11.34 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20569 | 4.01 | 610 | -3 | N/A | N/A | Pass |
| Blue | F | SSC | 56131 | 3.08 | 576 | 8 | N/A | N/A | Pass |
| Blue | E | FITC | 59 | 76.03 | 559 | -2 | 0.0153 | 203 | Pass |
| Blue | D | PE | 122 | 60.40 | 558 | -2 | 0.1479 | 386 | Pass |
| Blue | B | PerCP-Cy5-5 | 207 | 56.27 | 665 | -2 | 0.0071 | 38 | Pass |
| Blue | A | PE-Cy7 | 112 | 120.21 | 721 | -1 | 0.0087 | 25 | Pass |
| Red | C | APC | 358 | 28.74 | 601 | 0 | 0.0195 | 145 | Pass |
| Red | A | APC-Cy7 | 184 | 31.42 | 577 | 1 | 0.0047 | 1148 | Pass |
| Violet | B | V450 | 65 | 71.66 | 477 | 0 | 0.0376 | 2128 | Pass |
| Violet | A | V500 | 115 | 39.54 | 496 | 2 | 0.0201 | 1189 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.35 | -31.95 | 1.10 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.52 |
| Red | 17.06 | 13.60 - 20.40 | N/A | N/A | 29.14 | 29.61 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.92

## Threshold

Threshold (FSC): 11081

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments